BOTANICAL MAGAZINE TOKYO

VOL. 90 (1977)

Numbers 1017-1020, Pages 1-321

EDITORIAL BOARD

Hiroh SHIBAOKA, Editor-in-Chief, Tokyo Metropolitan University, Fukazawa, Setagaya-ku, Tokyo 158

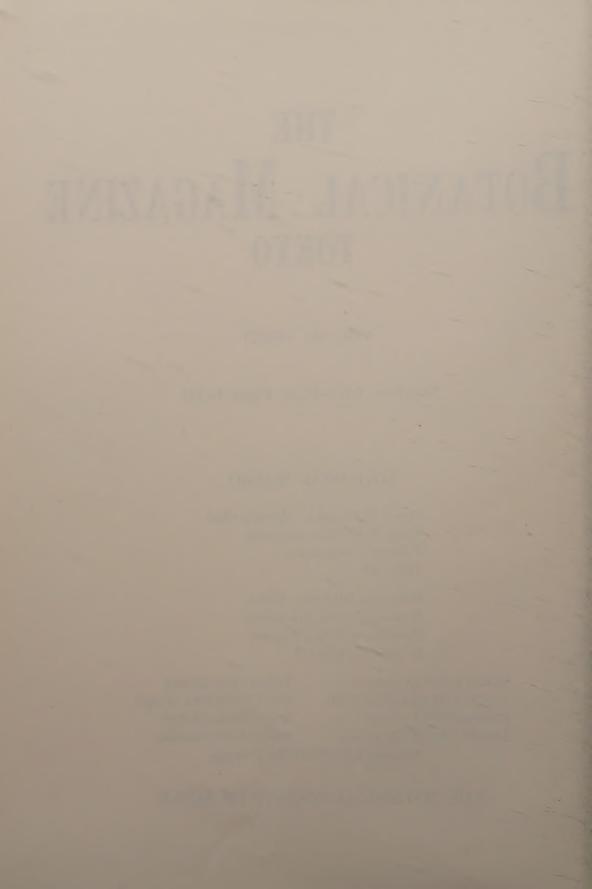
HIROYOSHI OHASHI, Editor, Botanical Gardens, Koishikawa, University of Tokyo, Hakusan, Bunkyo-ku, Tokyo 112

SEIICHI HINO (Hiroshima)
TETSUO KOYAMA (New York)
TOSHIRO SAEKI (Tokyo)
ATSUSHI TAKIMOTO (Kyoto)

TETSUO HNO (Tokyo) SYO KUROKAWA (Tokyo) KENGO SOMA (Tokyo) SHUNJI WADA (Sendai)

NAOHIKO YANAGISHIMA (Nagoya)

THE BOTANICAL SOCIETY OF JAPAN



CONTENTS

THE BOTANICAL MAGAZINE, TOKYO

Vol. 90

No. 1007 (March 1977)

OIKAWA, T. AND T. SAEKI: Light Regime in Relation to Plant Population Geometry I. A Monte Carlo Simulation of Light Microclimates within a Random Distribution						
Foliage OIKAWA, T.: Light Regime in Relation to Plant Population Geometry II. Light						
Penetration in a Square-Planted Population	11					
Kato, M.: Classification of Athyrium and Allied Genera of Japan						
Oнва, H.: The Taxonomic Status of Sedum Telephium and Its Allied Species (Crassulaceae)						
MARUYAMA, K.: Classification of Chlorella Strains by Cell Appearance and Group Sera MARUYAMA, K.: Classification of Chlorella Strains by Infrared Absorption Spectra of Cell	41 57					
Samples RATH, S.P. AND S.N. PATNAIK: A Note on the Cytology of Fimbristylis umbellaris (Lamk.) Vahl	67 79					
, and	10					
No. 1018 (June 1977)						
110. 1016 (Julie 1777)						
ISHIKURA, N. AND S. SATO: Isolation of New Kaempferol Glycosides from the Leaves of						
Euonymus HARA, N.: Ontogeny of the Reproductive Shoot Apex of Clethra barbinervis, Especially	83					
on the Superficial View Tateoka, T.: Natural Hybridization in Japanese Calamagrostis I. Several Interspecific	89					
Combinations in Central Honshu	103					
Kobayashi, M.: Studies on the Control of Cell Division in a Green Alga, Ankistrodesmus gracilis (Chlorococcales). I. Electron Microscopic Observations on the Proliferation						
Pattern	143					
Tateishi, Y. and H. Ohashi: A Second Species of Nesphostylis (Leguminosae) from Asia	149					
11310						
No. 1019 (September 1977)						
Yamaoka, T. and S. Sato: Analysis of Extracellular Macromolecules of Cultured Tobacco Cells in Comparison with Cell-Wall Macromolecules	153					
Pure Stands I. Mean Plant Weight-Density Trajectory during the Course of Self-	165					
MASUZAWA, T. AND K. HOGETSU: Seasonal Changes in the Amount of Carbohydrate and Crude Protein in the Rhizome of Miscanthus sacchariflorus						
TATEOKA, T., A. HIRAOKA AND T.N. TATEOKA: Natural Hybridization in Japanese Calamagrosits II. Calamagrostis langsdorffii × C. sachalinensis, an Example of an						
Agamic Complex	193					
Kobayashi, M. and M. Ito: Studies on the Control of Cell Division in a Green Alga, Ankistrodesmus gracilis (Chlorococcales) II. Control by Nitrogen Compounds						
OHASHI, H. AND Y. TATEISHI: The Genus Rhynchosia (Leguminosae) in Nepal	219					

Tani, K., T. Kuroiwa and T. Takemaru: Cytological Studies on Sporeless Mutant in the Basidiomycete Coprinus macrorhizus	235
No. 1020 (December 1977)	
NAKAYAMA, K., M. OKADA, K. WAGO AND E. YAKUSHIJI: Studies on the Cytochrome f of Bryopsis maxima in vivo and in vitro	247
IV. Experimental Confirmation of the Hybrid Origin of Aster ageratoides subsp.	253
IWATSUKI, K.: Studies in the Systematics of Filmy Ferns III. An Observation on the Involucres	259
Heteranthelium and Taeniatherum of the Tribe Triticeae, Gramineae	
Chen, S. and R. Ueda: Pollen Morphology and Germination in Narcissus Prithipalsingh and K.M.M. Dakshini: Structural Variations in the Style and Pollen Presentation Mechanisms of Blumea Species in India	
Oikawa, T.: Light Regime in Relation to Plant Population Geometry III. Ecological Implications of a Square-Planted Population from the Viewpoint of Utilization	
Efficiency of Solar Energy	
(Fagaceae)	313
Shibaoka, H. and T. Hogetsu: Effects of Ethyl N-Phenylcarbamate on Wall Microtubules and on Gibberellin- and Kinetin-Controlled Cell Expansion	317

AUTHOR INDEX

THE BOTANICAL MAGAZINE, TOKYO

Vol. 90

CHEN, S.	277	Okada, M.	247
Dakshini, K.M.M.	291	Ono, M.	313
Hara, N.	89	PATNAIK, S.N.	79
HIRAOKA, A.	193	PRITHIPALSINGTH	291
Hogetsu, K.	181	Rath, S.P.	79
Hogetsu, T.	317	Saeki, T.	1
Hozumi, K.	165	Sakamoto, S.	269
Imaichi, R.	129	Sato, Shuji.	83
Ishikura, N.	83	Sato, Sitiro.	153
Ito, M.	211	Sніваока, H.	317
IWATSUKI, K.	259	TAKEMARU, T.	235
Като, М.	23	Tani, K.	235
Kobayashi, M.	143, 211	TARA, M.	253
KUROIWA, T.	235	Tateishi, Y.	149, 219
MARUYAMA, K.	57, 67	TATEOKA, T.	103, 193
Masuzawa, T.	181	TATEOKA, T.N.	193
NAKAI, Y.	269	UEDA, R.	277
NAKAYAMA, K.	247	Wago, K.	247
Оназні, Н.	149, 219	Yakushiji, E.	247
Онва, Н.	41	Yамаока, T.	153
OIKAWA, T.	1, 11, 301		

